

BLADE

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AC

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Abstract

PURPOSE: To prolong the service life of a blade chip by forming a part of a super abrasive particle layer in a structure having a part partially extended towards the inner circumferential side.

CONSTITUTION: A super abrasive particle layer (chip) 2, 2A, which is sintered by mixing a diamond or a CBN abrasive particle with a metal powder, is formed on a steel base plate 1. The tip 2A is formed as a foot attached tip. A part extended toward the inner circumferential side of the base plate 1 is formed for demonstrating such effect as under head abrasion prevention. Mounting of the tip 2 and the foot attached tip 2A is not necessary to be alternate as shown in the example herein but the arrangement can be freely changed depending upon the length of the blade radius, application terms or the like. It can also be formed by combining with those having their foot length of the foot attached tip 2A shortened. Side resistance caused at the foot attached tip 2A and the cutting plane at the time cutting operation can be reduced by forming a grinding groove on the foot attached tip 2A.

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